

DEVICES HAVING PATTERNED REGIONS OF POLYCRYSTALLINE  
ORGANIC SEMICONDUCTORS, AND METHODS OF MAKING THE SAME

Abstract of The Invention

5 Semiconductor apparatus comprising a substrate having a substrate surface; a first  
dielectric layer comprising molecules of a first compound, the molecules of the first compound  
having first ends and second ends, the first ends being covalently bonded to a first region of the  
substrate surface, the second ends having aromatic regions; and a polycrystalline semiconductor  
layer comprising organic semiconductor molecules with aromatic portions, the polycrystalline  
10 semiconductor layer being on the first region of the substrate. Integrated circuits comprising  
apparatus, and methods for making apparatus and integrated circuits.